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NEW HAMPSHIRE
AGRICULTURAL EXPERIMENT STATION
DEPARTMENT OF AGRONOMY

Results of Seed Tests for 1939

MADE FOR THE
STATE DEPARTMENT OF AGRICULTURE

1776

By BESSIE G. SANBORN

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NEW HAMPSHIRE
STATE DEPARTMENT OF AGRICULTURE
Chapter 182, Public Laws

THE SALE OF AGRICULTURAL SEEDS

1. COLLECTION; DISTRIBUTION. The Commissioner of Agriculture shall collect rare and valuable seeds, plants, shrubbery and trees adapted to our climate and soils, so far as practicable, and distribute them in such manner as in his judgment is best calculated to promote the interests of agriculture. In such distribution, preference shall be given to those farmers and others who will agree to cultivate them properly and return to the office of the commissioner a reasonable proportion of the products thereof, accompanied by a statement of the mode of cultivation and such other information as may be necessary to determine their value for cultivation in the state.

2. SEEDS INCLUDED. The term agricultural seeds as used in this chapter includes the seeds of timothy, redtop, alfalfa, alsike clover, crimson clover, red clover, sweet clover, white clover, Hungarian millet, fescues, Canada blue grass, Kentucky blue grass, broom grass, tall meadow oat grass, orchard grass, Italian rye grass, perennial rye grass, sudan grass, Canada field peas, cowpeas, soy beans, vetches and other grasses and forage plants, including turnips, rutabagas and mangles, also barley, buckwheat, corn, oats, rye, wheat and other cereals, which are sold, offered or exposed for sale within this state for sowing or seeding purposes.

3. LABELING. Every lot or parcel of agricultural seeds, when in bulk, packages or other containers of one pound or more, shall have affixed thereto, in a conspicuous place on the exterior of the container, a plainly

written or printed statement clearly and truly certifying:

I. The commonly accepted name of such seed.

II. Its approximate percentage for purity, or its freedom from foreign matter or from other seeds distinguishable by their appearance, and in the case of special mixtures, the name and approximate percentage by weight of each kind of agricultural seed in such mixture in excess of five per cent of the total mixture.

III. The approximate percentage of germination of such seed, together with the month and year said seed was tested.

IV. The full name and address of the vendor.

4. APPROXIMATE DEFINED. The word approximate as used herein shall be defined in rules and regulations provided by the commissioner, who shall be guided by the rules and methods of testing adopted and approved by the association of official seed analysts of North America.

5. PACKETS. No person shall sell, or expose for sale, garden seeds or flower seeds in tied or sealed packets unless the same are plainly marked with the year in which the seed was tested.

6. BASIS OF PURITY, ETC. The percentages of purity and of germination of agricultural seeds, as required by this chapter to be shown, shall be based upon tests or analyses conducted either by the commissioner or his agents, or by the seed merchant or by his agents; provided, that such tests or analyses made by the seed merchant or his agents shall conform to the reasonable regulations which the commissioner is authorized to prescribe, or to the regulations or methods of testing adopted by the association of official seed analysts.

7. ENFORCEMENT. The duty of enforcing the provisions of this chapter shall be vested in the commissioner. Upon notice to the seed merchants of this state, through bulletins of his department or of the agricultural

experiment station, he may prescribe such reasonable rules and regulations, and appoint such analysts, agents and inspectors, as may be necessary to secure the efficient enforcement of this chapter.

8. INSPECTIONS; TESTS. The commissioner, either by himself or through his duly authorized agents, shall inspect, sample, analyze and test any agricultural seeds sold, offered or exposed for sale for seeding purposes within this state, at such time and to such extent as he may determine.

9. SAMPLES. They shall have access at all reasonable hours to any premises or structures to take samples of any such agricultural seeds as may be in the possession of any importer, merchant or agent, and, upon notice to the importer, merchant or agent, may take for analysis a composite sample of such seeds. Such sample shall be taken from a parcel or number of packages which shall not be less than five per cent of the whole lot inspected, and shall be thoroughly mixed. From this composite sample two official samples shall be taken, each of which shall be securely sealed. One sample shall be furnished to the party in interest, and the other retained by the commissioner or his inspector for test and analysis.

10. FALSE LABELS. In case a sample, drawn as provided in the preceding section, is found upon test and analysis to fall below the statement on the label attached to the lot or container from which the sample was secured, or if any agricultural seeds which are not properly labeled are being sold, offered or exposed for sale within the state, the commissioner may seize and hold such seed until proper labeling is effected by the owner or seller thereof.

11. PUBLICATION. He shall publish, or cause to be published, the results of tests and analyses of samples of agricultural seeds drawn as herein provided,

together with the names and addresses of the persons from whom the samples of seed were obtained. He may publish such other information as he may deem advisable concerning the value, character and use of certain seeds.

12. PROHIBITIONS. It shall be unlawful to sell, offer or expose for sale within this state, for seeding purposes, any agricultural seeds or mixture thereof without complying with the requirements of this chapter, or to falsely mark or label any agricultural seeds, or to interfere in any way with the commissioner or his inspectors in the discharge of their duties.

13. PENALTY. Whoever violates any provisions of this chapter relating to failure to label, or false labeling, shall be fined not more than one hundred dollars.

14. PROSECUTION. If the commissioner shall find, upon examination, test or analysis, that any person has violated any such provision he or his agent may institute proceedings against such person; or he may report the results of such examination or test to the attorney-general, together with a sworn statement of the analyst and such other evidence of said violation as may have come to his knowledge.

15. TESTS FOR CITIZENS. Any citizen of this state shall have the privilege of submitting to the commissioner samples of agricultural seeds for test and analysis, subject to such rules and regulations as may be adopted by him.

16. ...., REGULATIONS. The commissioner may, by such regulations, fix the maximum number of samples that may be tested or analyzed free of charge for any one citizen in any one period of time, and may fix charges for tests and analyses of samples submitted in excess of the number tested free of charge.

RESULTS OF SEED TESTS

Made July 1, 1938, to June 30, 1939

This report contains the results of the inspection for the State Department of Agriculture of four hundred and twenty-six official samples collected throughout the State during the period from July 1, 1938, to June 30, 1939. Each of these samples was analyzed and the results mailed to the retail dealers concerned. In addition to these official samples, fifty-six private samples were analyzed, making a total of four hundred and forty-three samples inspected.*

This season there are an increased number of samples falling below in germination, and in many cases this lack of vitality seems to be directly related to the date tested as appearing on the tag accompanying the seed. A few of these samples bear the dates 1931, 1933 or 1934, and several 1935, 1936 or 1937. Millets, red top, and timothy lose their viability rather rapidly from one year to another, and it would seem unwise to keep these seeds over more than one year. In any case, they should be tested annually.

The state seed law requires that all seed be labelled to show its quality. The buyer is protected by observing the guarantee. The purpose of the seed inspection work is to determine, within reasonable limits, whether a sample of seed is as good as its guarantee. Samples found "below" must be remarked or removed from sale.

The attention of seed purchasers should be called to the fact that the germination figure is based on the pure seed present, and is a statement of the number of seeds in every hundred that are capable of growth. The value of a sample for production purposes cannot be greater than the product of the actual percentage of purity multiplied by the actual percentage of germination. For instance, in the case of a sample of unhulled red top, guaranteed 50 per cent purity and 90 per cent germination, the real seeding value of the sample is .50 x .90, or 45 per cent (not 90% as might be assumed from looking at the germination only). In other words, 45 per cent of the weight of that sample is live seed, the rest is inert matter or dead seeds. Likewise, in the case of a sample of alsike clover, guaranteed 91.15 per cent purity, and 87 per cent germination, the actual seeding value of the sample is .9115 x .87, or 79 per cent.

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*Miss Ruth Davison and Miss Esther Jewell assisted with the purity and germination tests herein reported. For their services the writer wishes to express grateful acknowledgment.

A certain amount of variation is to be expected in comparing the results of two or more purity analyses. For this reason a "tolerance" or difference is allowed between the average results of our tests and the guarantee in accordance with the following formula. The sample is considered as made up of two parts, the one being the pure seed and the other the balance of the sample. The tolerance in per cent allowed for the larger part or pure seed is two-tenths of one per cent plus 20 per cent of the lesser part. For instance, if a sample is guaranteed 99.60 per cent pure seed, it may test as low as 99.32 per cent or as high as 99.88 per cent, come within the "tolerance," and be "satisfactory." In the same way, a sample guaranteed 92.80 per cent may test as low as 91.17 per cent or as high as 94.43 per cent and be "satisfactory." If a sample is found to be better than the highest figure in the tolerance, it is marked "above" in this bulletin; if lower than the lowest figure, the actual figure is reported.

A wider tolerance for germination than for purity is allowed between the results of the test and the guarantee, as follows:

Guarantee %	Allowable variation %
96 or over	5
90 or over but less than 96	6
80 or over but less than 90	7
70 or over but less than 80	8
60 or over but less than 70	9
Less than 60	10

Accordingly, a sample guaranteed 92 per cent germination is "satisfactory" if it tests 86 per cent to 98 per cent. A sample guaranteed 85 per cent may fall as low as 78 per cent or as high as 92 per cent. If a sample tests higher than the per cent of variation allowed, it is marked "above" in this bulletin, or, if it tests below the variation allowed the actual figure is reported.

Comparison of Seeds for Ten Years

	Number of Samples Tested	Below in Purity		Below in Germination	
		Number	Per Cent	Number	Per Cent
1930	375	51	13.6	74	19.7
1931	385	36	9.3	68	17.6
1932	357	23	6.4	46	12.8
1933	384	30	7.8	37	9.6
1934	412	22	5.3	62	15.0
1935	391	28	7.1	74	18.9
1936	430	34	7.9	84	19.5
1937	439	31	7.0	70	15.9
1938	392	60	15.0	75	19.1
1939	426	32	7.5	100	23.5

SEED INSPECTION, 1939

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination		Actual
				Found	Guaranteed	Found	Guaranteed	Value**
Ayers & Jenkins Co., Rochester	11216	Alsike Clover, Liberty 5064	1936	S	98.88	S	82	75
	11217	Alsike Clover	1939	S	99.00	S	92	71
	11219	Japanese Millet, 1332	1938	97.74	98.58	61.5	83	60
	11218	Red Clover	1939	A	98.00	S	93	87
	11215	Red Top, Fancy	1938	S	93	S	90	82
	11214	Timothy, Pine Tree	....	S	99.60	S	90	87
G. W. Bartemus Co., Henniker	11357	Alsike Clover, 21383, Pine Tree	1938	S	98.10	69	83	68
	11356	Hungarian Millet, 38-122	1938	A	98.50	S	85	77.5
	11355	Red Top, 41632, Fancy	1939	87.65	92.80	S	90	76
Berlin Grain Co., Berlin	11081	Japanese Millet, 38-115	1938	S	98.00	S	85	87
	11080	Red Clover, Domestic, 6362	1939	S	99.50	S	84	83
	11079	Red Top, Fancy, 6248	1938	93.85	95.54	S	94	83.5
	11078	Timothy, 5072	1937	S	99.60	S	92	95
	11082	Timothy, Pine Tree, 66381	1938	S	99.70	S	94	95
L. C. Berry, Lebanon	11466	Oats, 36-103, Victory Certified	1939	S	98	S	95	94

L. C. Berry, Lebanon (continued)	11464	Red Clover, 7211, Kark. Medium	1939	S	99.10	S	88	85
P. W. Bragg, Farmington	11265	Red Top, Fancy, 6632	1939	S	92.45	76	92	71
W. B. Brown, Ashland	11415	Hungarian Millet, 8341	1937	S	98.50	S	87	84
	11398	Japanese Millet, 9096	1939	S	99.12	S	88	84
	11422	Red Clover, White Mtn., Med., Extra Fancy	1931	S	99.00	63	94	63
	11416	Red Top, White Mtn., Extra Fancy	1933	S	95.00	S	92	82
Cavis Brothers Co., Bristol	11379	Red Top, Monadnock, 41505	1938	A	92.00	S	90	89
Central Feed & Grain Co., Dover	11134	Red Clover, Pan American, 5882	1939	S	99.41	S	82	80
	11146	Timothy, Pan American	1939	S	99.70	S	90	87
Central Grain Store, Franklin	11382	Hungarian Millet, 9089	1939	S	98.85	S	87	83
	11381	Oats, Pennant Brand	1939	S	99.05	S	98	94
	11384	Red Clover, 5875, Pan American, Med.	1939	S	99.10	S	89	90
	11383	Red Top, Pan American, 4311	1939	S	95.94	76	90	73
	11385	Timothy, Pan American	1939	S	99.60	S	90	84

A—Above S—Satisfactory

* As stated on tag accompanying seed.
** Percentage of purity x percentage of germination.

SEED INSPECTION, 1939—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination		Actual
				Found	Guar-anteed	Found	Guar-anteed	Value**
Chase Grain Mill, Plymouth	11393	Alsike Clover, Liberty, 7248	1939	S	97.75	S	84.50	79
	11411	Canada Peas, 4426	1939	S	98.50	S	95	97
	11414	Canada Field Peas, 145	1938	S	99.50	S	90	86
	11418	Hungarian Millet, 7182	1939	S	99.08	81	90	80
	11400	Japanese Millet, 1221.	1939	S	98.32	86	94.5	85
Checkerboard Feed Store, Claremont	11345	Alsike Clover, 1511, Pan American	1938	S	98.39	70.5	80	69
	11347	Oats, Fancy Selected	....	S	97.00	S	94	93
	11363	Red Clover, 5902, Pan American, Med.	1939	S	99.25	S	90	86.5
	11364	Red Clover, Imported, Med.	1938	A	99.02	67	84	66.5
	11346	Red Top, 4313, Pan American	1939	S	92.13	79	90	73
Checkerboard Feed Store, Lebanon	11465	Red Clover, 5905, Pan American, Med.	1939	S	99.25	S	90	90
Checkerboard Feed Store, Meredith	11419	Hungarian Millet, 8356	1939	S	97.72	S	80	83
Checkerboard Feed Store, Milford	11289	Japanese Millet, 154	1939	S	98.48	S	92	85

Checkerboard Feed Store, Milford (continued)	11288	Red Clover, 2430, Pine Tree, Med.	1939	S	99.32	S	84	83
	11302	Red Top, 41588, Ace	1939	S	92.10	S	90	82
Cheshire County Farmers' Ex., Inc., Keene	11332	Red Clover, Monadnock	1939	S	99.28	S	87	88
F. W. Clark, Wilton	11343	Japanese Millet, 81193	1938	S	97.60	S	82	77
Edgar T. Clement, Lisbon	11455	Hungarian Millet, 38-88	1937	96.60	98.94	41.5	80	40
	11457	Oats, Sunshine	1939	S	98.00	S	95	95
	11456	Red Clover, Monadnock	1939	S	99.28	S	87	85.5
	11461	Timothy, 10-173	1939	S	99.60	81.5	98	81
Colebrook Feed Company, Colebrook	11472	Alsike Clover, 1554, Pan American	1939	S	98.05	S	85	81
	11460	Barley, 071797, Wisconsin No. 38	1939	S	99.80	S	98	97
	11473	Japanese Millet, 81199	1939	S	97.41	S	85	84
	11474	Red Clover, 5905, Med., Pan American, Dom.	1939	S	99.25	S	90	83
	11475	Timothy, 66562, Pine Tree	1939	S	99.70	80	90	80
Freeman Corson, Rochester	11220	Hungarian Millet, 6344	1937	S	97.68	S	91	89
	11209	Red Clover, 7288, Liberty, Med.	1939	S	99.00	S	78	85

A—Above S—Satisfactory

* As stated on tag accompanying seed.

** Percentage of purity x percentage of germination.

SEED INSPECTION, 1939—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination		Actual Value**
				Found	Guaranteed	Found	Guaranteed	
Freeman Corson, Rochester (continued)	11210	Timothy, 6628, Liberty	1939	S	99.60	S	94	91
	11221	Timothy, 6651, Liberty	1938	S	99.61	S	92.5	90
The County Store, Inc., Milford	11285	Red Top, 2314	1938	A	91	43	90	41
	11284	Timothy, 2363	1938	S	99.60	S	90	96
G. B. Currier Co., Colebrook	11446	Alsike Clover, 21522, Ace	1939	S	98.00	S	80	83
	11454	Canada Peas, 085280	1939	S	99.50	S	93	93
	11449	Hungarian Millet, 38-122	1938	S	98.90	S	85	77
	11448	Japanese Millet, 38-121	1938	A	95.00	S	80	71
	11452	Oats, 160, Mammoth Cluster	1939	S	99.50	S	94	96
	11435	Red Clover, 24 x 170, Canadian	1938	A	98.30	S	84	80.5
	11450	Red Clover, 24251, Ace, Medium	1939	S	98.42	S	82	84.5
	11447	Red Top, 041423, Ace, Fancy	1939	S	92.90	S	90	80
	11451	Red Top, 41-571, Ace	1938	S	92.90	S	90	80
	11453	Soy Beans, Black Wilson	1938	S	98	S	90	84.5

G. B. Currier Co., Colebrook (continued)	11437	Timothy, 66-569, Pine Tree	1937	S	99.65	84	92	84
C. A. Danforth Company, Bradford	11358	Japanese Millet	1936	S	98	53.5	85	52.5
	11359	Timothy, 69935, Special	1937	A	97.00	78	90	76
Depot Store, Littleton	11484	Alsike Clover, Herald	....	S	95	S	80	74.5
	11488	Japanese Millet	1939	S	98.78	S	91	84
	11486	Red Clover, 5896, Herald, Dom. Med.	1939	S	97	S	90	83
	11485	Timothy, Gold Medal	1939	99.16	99.80	S	92	89
	11487	Timothy, 688, Herald	1939	A	98.00	S	90	83
Dover Grain Company, Dover	11150	Alsike Clover, Liberty, 7248	1939	S	97.75	S	84.50	81
	11131	Hungarian Millet, 7182	1939	S	99.08	80	90	79
	11123	Japanese Millet, 7195	1939	S	98.58	S	93	88
	11147	Red Clover, Medium, 3924	1938	S	99.34	S	83	78
	11152	Red Top, Fancy, 3757	1938	S	92.95	76	91	71
	11151	Timothy, Liberty, 6804	1939	S	99.60	S	92	92
S. A. Dow & Son, North Hampton	11242	Hungarian Millet, 9052	1937	S	98.37	70.5	90	69
	11243	Hungarian Millet, Fancy	1935	97.92	99.00	55.5	90	54
	11241	Red Clover, 5883, Pan American, Med.	1939	S	99.45	S	92	89

A—Above S—Satisfactory

* As stated on tag accompanying seed.
** Percentage of purity x percentage of germination.

SEED INSPECTION, 1939—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination		Actual
				Found	Guar-anteed	Found	Guar-anteed	Value**
S. A. Dow & Son, North Hampton (continued)	11240	Timothy Pan American	1939	S	99.60	78	90	78
W. E. Dunbar Sons, Manchester	11183	Red Clover, Ace, 024796	1938	S	98.10	S	91	88
	11162	Red Top, Pine Tree, 41548	1938	S	96.80	S	92	90
Eastern States Farmers' Exc., Concord	11169	Alfalfa, Grimm	1938	A	99.40	A	60	79
	11167	Alsike Clover	....	S	98.50	S	70	77
	11175	Hayland Mixture No. 2	1938	A	98.00	S	80	88
	11174	Hayland Mixture No. 3	1938	S	99.00	S	75	85
	11173	Hayland Mixture No. 4	1938	A	99.00	S	63	69
	11170	Hungarian Millet	1939	S	98.75	S	85	84
	11165	Japanese Millet	1938	S	98.00	S	85	84
	11176	Meadow Pasture Mixture	1938	S	94.00	S	75	77
	11172	Oats, Selected	1938	S	97.00	S	90	91
	11171	Red Clover, Medium	1938	A	99.20	A	82	91
	11166	Timothy	1938	S	99.50	S	90	91

Eastern States Farmers' Exc., Manchester	11154	Alfalfa, Variegated	1938	S	99.30	A	60	75
	11185	Hayland Mixture No. 1	1938	S	99.00	S	85	86
	11184	Lespedeza, Korean	1938	S	99.00	S	75	81
	11168	Kentucky Bluegrass	1938	S	90.00	S	85	71
	11163	Ladino Clover	1938	S	99.50	S	40	32
	11156	Meadow Pasture Mixture B	1938	A	96.00	S	80	82
	11157	Red Top, Fancy, Solid	1938	A	96.00	S	95	92
	11155	Soy Beans, Dunfield	1938	S	99.25	S	80	86
Elm City Grain Company, Keene	11305	Oats, Red Rose	1938	S	98.00	S	98	92
	11306	Red Clover, 24246, Special Medium	1939	S	95.00	S	90	80
Farm Service Company, Dover	11196	Red Clover, Medium, 5803, Pan American, Dom.	1938	S	99.51	S	87	92
	11197	Red Top, 4278, Pan American	1938	S	93.30	S	90	89
	11198	Timothy, 685, Pan American	1939	S	99.60	S	90	92
Farm Service Company, Exeter	11237	Red Clover, 5860, Pan American	1939	S	99.40	S	85	87
	11238	Soy Beans, 9541, Black Wilson	1939	S	99.00	S	88	83
Farm Service Company, Keene	11333	Alfalfa, 27927, Grimm	1936	S	99.72	S	80	81

A—Above S—Satisfactory

* As stated on tag accompanying seed.
** Percentage of purity x percentage of germination.

SEED INSPECTION, 1939—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination		Actual
				Found	Guaranteed	Found	Guaranteed	Value**
Farm Service Company, ... Keene (continued)	11308	Canada Field Peas,.. 9559	1939	S	99.00	S	92	94
	11312	Red Clover, 5860, Pan American, Med.	1939	S	99.40	S	85	88
	11276	Red Top, 4301, ... Pan American	1939	S	94.01	S	92	83
	11275	Soy Beans, 9451, ... Black Wilson	1938	S	99.00	S	90	89
Farm Service Company, ... Laconia	11405	Japanese Millet, 81186	1936	S	98.00	S	85	81
	11425	Rye, Spring, 8169	1938	S	98.04	73.5	85	72
Farm Service Company, ... Manchester	11159	Alsike Clover, Pan ... American, 1513	1939	S	99.05	S	80	78
	11153	Hungarian Millet, 9090	1939	S	98.77	67	85	66
	11160	Japanese Millet, 9099.	1939	S	97.68	S	90	83
	11158	Red Clover, 5860, ... Dom., Pan American, Med.	1939	S	99.40	S	85	87
	11186	Red Top, Pan .... American, 4301	1939	82.32	94.01	S	92	71
	11187	Rye, Spring	1939	S	98.60	S	90	85
	11161	Timothy, Pan .... American, 624	1938	S	99.70	S	95	89

Farm Service Company, Manchester (continued)	11191	Timothy, Pan American	1938	S	99.65	S	90	94
Farm Service Company, Nashua	11228	Alfalfa	1939	S	99.70	S	80	74
	11229	Golden Millet	1933	S	99.01	23	90	23
	11227	Hungarian Millet, 9056	1938	S	98.50	81.5	90	81
	11239	Japanese Millet, 9057.	1938	96.88	98.00	S	90	84
Farm Service Company, Portsmouth	11194	Hungarian Millet	1939	S	98.77	68.5	85	67
	11199	Timothy, Pan American	1938	S	99.65	S	90	95
Farmers Grain & Feed Co., Lancaster	11444	Alsike Clover, 6300	1937	S	98.64	S	86	80
	11443	Barley, 8263, 6-row	1939	S	99.50	S	90	96
	11481	Barley, 71264, Oderbrucker Type	1938	S	98.44	S	95	93
Farmers' Feed & Supply Co., Franklin	11389	Alsike Clover, Ace, 021225	1938	S	98.25	A	82	91
	11390	Oats, Overall Recleaned	1939	S	96.00	S	95	93
Farmers' Feed & Supply Co., Milford	11286	Alsike Clover, Pan American, 1541	1939	S	99.00	S	80	78
	11287	Japanese Millet	1939	S	98.10	S	90	82
	11282	Red Clover, 5867, Dom., Med., Pan American	1939	S	99.29	S	80	82
	11283	Red Top, 43, Pan American	1939	S	95.94	81.5	90	79

A—Above S—Satisfactory

* As stated on tag accompanying seed.
** Percentage of purity x percentage of germination.

SEED INSPECTION, 1939—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination		Actual
				Found	Guar-anteed	Found	Guar-anteed	Value**
Farmers' Grain Store, ... Ashland	11395	Red Clover, ... Liberty, 7204	1939	S	99.00	S	89	85
	11417	Red Clover, ... Med., B2820	1938	S	99.00	S	85	87
	11412	Red Top, Fancy, 4386	1939	S	92.08	80	93	75
Eugene C. Foss Company, ... Rochester	11213	Hungarian Millet, 9089	1939	S	98.85	S	87	79
H. J. Follansbee Company, ... Bristol	11378	Hungarian Millet, 8355	1939	S	98.74	S	85	81
	11423	Japanese Millet	1938	A	97.75	S	86	80
	11424	Timothy	1938	A	99.50	S	95	89
Goodnow Brothers Company, ... East Jaffrey	11330	Hungarian Millet	1939	S	98.00	S	85	76
	11318	Japanese Millet	1939	A	97.76	78	90	77
	11329	Oats, Delaware	1939	S	99.00	S	98	94
	11317	Red Top, Fancy	1939	S	91.00	83.5	91	77
	11337	Red Top, 041-105, XX	1939	S	90.00	S	90	81
	11342	Soy Beans, 17257, ... Black Wilson	1938	S	98.00	S	85	76
	11338	Timothy, ... 66559, Special	1939	A	98.00	A	85	95
	11341	Timothy, Bay State..	1939	S	99.60	83.5	93	83
C. J. Goss, ... Lakeport	11392	Barley, 6-row, 6461 ..	1937	S	97.65	85	92	83

C. J. Goss, Lakeport (continued)	11399	Japanese Millet, 1193.	1938	S	98.89	57	85	56
	11404	Timothy, Liberty, 5975	1936	S	99.60	S	92	95
Grafton County Feed Company, North Haverhill	11445	Barley, Pennant	1939	S	99.00	S	95	94
John H. Griffin, Newmarket	11296	Alsike Clover, Pan American	....	S	98.00	58.5	80	58
	11294	Hungarian Millet, 9046	1937	S	99.00	80.5	90	80
	11295	Oats, Swedish	1933	S	99.00	57	99	56
	11292	Red Clover, 5668, Pan American, Dom.	1936	S	99.04	S	85	86
	11293	Red Clover, 5576, Pan American, Med.	1936	S	99.25	65.5	90	65
	11281	Timothy, Pan American	1936	S	99.60	72	92	72
Hill Hardware & Paint Co., Nashua	11291	Hungarian Millet, J 66037	1936	98.36	99.00	61.5	88	60
	11290	Japanese Millet, J 5637	1936	S	97.00	79.5	93	78
Holbrook Grocery Company, Keene	11279	Alfalfa, Grimm, 72123, Canadian	1938	S	99.88	S	71	79
	11321	Hungarian Millet, 8365	1939	97.19	98.20	S	87	88
	11313	Kentucky Bluegrass	1939	S	80.70	S	75	56
	11280	Red Clover, Monadnock	1938	S	97.52	S	86	87
	11311	Red Clover, White Mtn.	1939	A	99.00	S	93	88

A—Above S—Satisfactory

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SEED INSPECTION, 1939—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination		Actual
				Found	Guar- anteed	Found	Guar- anteed	Value**
Holbrook Grocery Company, ... Keene (continued)	11278	Red Top, White Mtn...	1939	S	95.00	S	90	82
	11303	Red Top, 41535, XX ..	1938	S	85.30	S	90	72
	11277	Timothy, 66517, ... White Mtn.	1939	S	99.65	S	90	93
	11319	Timothy, 66322, ... Pine Tree	1938	S	99.60	S	94	90
	11320	Timothy, ... 66324, Special	1938	A	90.00	S	92	85
Holbrook Grocery Company, ... Woodsville	11436	Hungarian Millet, ... 83-511	1939	S	99.12	S	83	80.5
	11438	Japanese Millet, 81-17	1937	S	98.42	S	85	77
	11442	Oats, White Mtn. ...	....	S	99.00	S	98	97
	11439	Red Clover, ... Monadnock	1939	S	99.28	A	81	90
	11463	Red Clover, Adaptable European	1938	S	99.35	69.5	80	69
	11440	Timothy, 66559, ... Special	1939	A	98.00	A	85	93
	11441	Timothy, 86560, ... Pine Tree	1939	S	99.60	S	90	91
	11462	Timothy, 665-48, ... Monadnock	1939	S	99.50	S	90	91

Hopkins Bros., Belcher Co., Greenfield	11339	Timothy, Monadnock	1937	S	99.50	80	94	80
E. C. & W. L. Hopkins, Inc., Greenfield	11328	Hungarian Millet, 83-54	1938	98.25	98.94	48	78	47
	11323	Japanese Millet, 81-15	1938	A	98.05	S	80	86
	11340	Oats, Victory, Fancy.	1939	S	97.00	S	92	94
	11326	Red Clover, 24 x 107	1938	A	99.16	S	81	84
	11334	Red Top, 41-413, Pine Tree	1938	93.05	95.20	S	92	80
	11335	Timothy, 66-56, Pine Tree	1939	S	99.60	S	93	91
	11336	Timothy, 66-580, Pine Tree	1938	99.17	99.60	S	91	91
	11327	Vetch, 99-24, Winter..	1936	S	99.45	75	94	75
J. Jones & Son, Alton	11270	Alsike Clover, Pan American, 1969	1937	S	98.30	S	80	75
	11269	Hungarian Millet	1936	A	99.00	S	90	84
	11267	Red Top, Ace	1936	A	92.00	S	90	82
	11268	Red Top, Fancy, 41537	1938	S	96.40	S	92	84
	11271	Timothy, 5072	1937	S	99.60	S	92	93
	11272	Timothy	1938	S	99.60	S	92	86
	11273	Timothy, Herald	1935	S	97.48	62.5	90	62
	11274	Timothy, 69875, Bison	1937	A	98.10	S	90	83
Arthur J. Kashullnes, Nashua	11230	Hungarian Millet, J 6-2339	1939	S	98.00	S	85	78

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SEED INSPECTION, 1939—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination		Actual
				Found	Guar-anteed	Found	Guar-anteed	Value**
Arthur J. Kashulines, Nashua (continued)	11222	Red Clover, Domestic, Medium	1938	97.43	99.40	S	93	85
	11235	Red Top	1938	A	90.00	S	90	86
	11236	Timothy	1937	S	99.60	S	90	92
E. J. Keegan & Company, Franklin	11387	Japanese Millet	1939	S	98.06	70.5	90	69
	11388	Red Top, Pan American, 4210	1936	S	94.00	70	88	66
	11386	Timothy, Pan American, 623	1938	S	99.65	S	93	90
J. H. Kiniry, Claremont	11361	Red Clover, 2842, European	1937	95.51	99.00	S	80	75
	11360	Red Top, XX	....	A	90.00	S	90	88
W. H. Knowles, Epsom	11263	Red Top, 41611, Pine Tree	1939	S	95.40	84.5	92	81
	11262	Timothy, Pine Tree, 66-182	1939	S	99.65	S	90	91
Littleton Feed Store, Littleton	11483	Alsike Clover, 25-167	1939	S	99.05	S	82	74
	11479	Japanese Millet, 38-129	1939	A	98.00	S	85	86
	11482	Timothy, 6311	1939	S	99.65	S	92	88

H. P. Maxfield, Pittsfield	11259	Hungarian Millet, 83-58	1936	S	99.08	72.5	85	72
	11260	Hungarian Millet	1935	97.03	98.00	26.5	90	26
	11258	Japanese Millet, 44122	1936	98.25	99.08	24.5	88	24
	11256	Red Clover, 5752, Liberty, Medium	1936	S	99.00	S	86	78
	11257	Red Top, Pan American, 4296	1938	91.69	95.86	S	90	78
	11261	Timothy, Liberty, 5681	1935	S	99.65	80.5	92	80
Meredith Grain Store, Meredith	11420	Alsike Clover, Pan American	1937	S	98.04	S	80	74
	11401	Japanese Millet, 9103.	1939	S	98.78	S	91	83.5
	11402	Red Clover, 5901, Dom., Med., Pan American	1939	S	99.25	S	90	84.5
	11410	Red Clover, Imported Medium	1937	S	99.22	S	90	83
	11403	Red Top, Pan American, 4304	1939	S	92.20	74.5	90	69
	11421	Timothy, Liberty, 6717	1939	99.48	99.80	S	96	89.5
Merrimack Farmers' Exc., Inc., Concord	11094	Alfalfa, Grimm, 27-722	1938	S	99.68	S	92	82.5
	11105	Alfalfa, Grimm, Pine Tree, 27208	1939	S	99.42	S	82	75
	11101	Alsike Clover, Pine Tree, 21373	1939	S	99.05	S	80	73.5
	11089	Barley, 6-row, 71265..	1939	S	98.35	S	95	95

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SEED INSPECTION, 1939—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination		Actual
				Found	Guar-anteed	Found	Guar-anteed	Value**
Merrimack Farmers' Exc., Inc., .. Concord (Continued)	11099	Crimson Clover, 022139	1937	S	98.75	S	85	75
	11095	Hungarian Millet, ... 83-56	1938	98.20	98.94	13.5	70	13
	11092	Oats, ... Merrimack Brand, Swedish Type	....	S	95.00	S	95	86
	11083	Red Clover, ... Mammoth, Pine Tree, 23202	1937	S	99.64	S	85	86
	11084	Red Clover, Solar, ... Med., 213	1938	S	99.46	S	84	87
	11091	Red Clover, 24934, ... Med., Pine Tree	1939	S	99.56	S	85	84
	11096	Red Clover, 24 x 24..	1938	S	99.46	S	92	86
	11097	Red Clover, ... Mammoth, Ace, 23332	1939	S	98.88	S	90	86.5
	11100	Red Top, Ace, 41612..	1939	S	92.00	S	90	82
	11103	Rye, Rosen	....	S	95.00	80.5	95	76
	11087	Soy Beans, ... Black Wilson	1938	S	99.00	S	85	84
	11088	Soy Beans, ... Illini, 84383	1937	S	99.00	20	85	19

Merrimack Farmers' Exc., Inc., .. Concord (Continued)	11104	Soy Beans, ... Manchu, 84-24	1937	S	99.00	54	93	53
	11085	Sudan Grass, 098296..	1938	S	98.63	S	85	77
	11102	Sweet Clover, 25979,.. White Blossom	1939	S	99.60	S	86	78.5
	11093	Timothy, ... "Yeager's" 25	1938	S	99.63	S	90	88
	11098	Timothy, ... Pine Tree, 66101	1937	S	99.70	S	95	88
	11090	Vetch, Winter, 99185.	1939	S	99.70	S	70	66.5
	11086	White Clover, 026385.	1939	S	97.40	S	85	75
Merrimack Farmers' Exc., Inc., .. Exeter	11225	Alsike Clover, ... 21373, Pine Tree	....	S	99.15	S	76	73
	11226	Japanese Millet, 81195	1938	S	96.60	S	80	74
	11223	Oats, Natural for Seed	....	S	99.00	S	95	93
	11224	Red Clover, 271, ... Solar Medium	1938	S	99.60	S	84	88
Merrimack Farmers' Exc., Inc., .. Franklin	11427	Red Top, Ace, 41645..	1939	S	93.40	S	90	80.5
	11428	Red Top, 041423, ... Fancy, Ace	1939	S	92.90	S	90	77
Merrimack Farmers' Exc., Inc., .. Laconia	11397	Alsike Clover, ... Pine Tree, 21-579	1939	S	98.50	S	82	74
	11413	Alsike Clover, ... Pine Tree, 21530	1939	S	98.85	S	77	81
Merrimack Farmers' Exc., Inc., .. Peterborough	11331	Japanese Millet, 08154	1939	S	98.48	S	92	84

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SEED INSPECTION, 1939—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination		Actual
				Found	Guaranteed	Found	Guaranteed	Value**
J. J. Moreau & Son, Manchester	11181	Barley, 8167, 6-row State	1938	S	99.00	S	95	95
	11178	Hungarian Millet, 9056	1938	S	98.50	S	90	84
	11179	Hungarian Millet, 9052	1937	96.63	98.37	76	90	74
	11182	Japanese Millet, 9096.	1939	S	99.12	S	88	81
	11177	Oats, Swedish Select.	1939	S	98.00	S	94	93
	11192	Red Clover, Ace, Poland, 024609	1937	S	98.50	71	82	64
	11180	Red Top, Fancy	1935	S	92.00	74.5	90	68
	11188	Rye, Spring	1938	S	98.00	49	98	48
	11164	Timothy, Pan American	1939	S	99.70	S	90	84
	11193	Timothy, Pan American	....	S	99.60	S	94	91
	11190	Wheat, 8166, Marquis Spring	1938	S	99.13	49.5	85	49
	11189	White Clover	1939	S	98.25	S	90	81
Nashua Grain Company, Nashua	11231	Canada Bluegrass	1938	S	85.00	S	85	65
	11234	Red Clover, Medium	....	S	99.40	82	94	81
	11233	Rye Grass, Domestic	1938	S	98.00	S	94	94

Nashua Grain Company, Nashua (Continued)	11232	Timothy	1937	S	99.57	S	92	90
F. W. Neal & Company, Dover	11124	Hungarian Millet	1935	A	98.00	36.5	90	36
	11143	Japanese Millet	1936	S	98.06	75	90	74
	11149	Oats, Swedish, 37970	1938	S	99.00	S	92	95.5
	11138	Rye, Winter, 17509-A	1938	S	97.00	79	90	77
	11139	Timothy, Pan American	1936	S	99.60	S	92	90
	11140	Timothy, 5072	1937	S	99.60	S	92	95
Nelson Warner Company, Charlestown	11373	Alfalfa, 4617, Grimm.	1939	S	99.60	S	80	81
	11370	Alsike Clover, Liberty, 6955	1938	S	98.66	S	88	85
	11374	Red Clover, L 9.1638, Medium	1937	S	99.31	S	80	87
	11375	Red Top, 4386, Fancy	1939	A	92.08	S	93	86
	11372	Timothy, 6631, Liberty	1938	S	99.75	S	95	90.5
New England Dairies, Inc., Lisbon	11458	Oats, 36-99, Anchor	1939	S	97.00	S	95	93
North Haverhill Grain Store, North Haverhill	11489	Alsike Clover, 21354, Pine Tree	1938	S	98.65	S	80	81
	11490	Barley, 8254, Alpha, 2-row	1939	S	98.92	S	94	90
Pittsfield Feed & Grain Co., Pittsfield	11264	Timothy, Pan American	1939	S	99.70	S	90	85

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SEED INSPECTION, 1939—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination		Actual Value**
				Found	Guar-anteed	Found	Guar-anteed	
W. N. Potter Grain Stores, Inc., .. Winchester	11365	Alsike Clover, ... 3746, Liberty	1938	S	99.06	S	83	84
	11366	Alsike Clover, ... 7246, Liberty	1939	S	98.00	S	85.5	78
	11369	Hungarian Millet, 6831	1938	97.53	98.45	75	85	73
	11367	Japanese Millet, 1221.	1939	S	98.32	82	94.5	81
	11352	Oats, Victory, Fancy.	1939	S	97.00	S	92	82
	11368	Red Clover, ... 4813, Liberty	1939	S	99.25	S	84	84
	11371	Red Clover, 6962, ... Imported Medium	1938	S	99.46	84	92	83.5
	11344	Red Top, 4387, Fancy	1939	S	93.62	78	92	73
	11351	Timothy, ... 4689, Liberty	1939	S	99.60	S	92.5	88
A. M. Rand Company, ... Plymouth	11394	Red Clover	1939	A	98.00	29	90	29
	11408	Red Top	1939	A	90.97	S	92	82
	11391	Timothy	1939	A	99.00	S	90	93
Rand, Ball & King Company, ... Claremont	11377	Alfalfa, Grimm, 4551.	1939	S	99.80	64	79.5	64
	11353	Hungarian Millet, 5679	1936	S	98.95	64.5	91	63.5
	11354	Hungarian Millet, 6390	1937	95.98	98.00	S	90	84

Rand, Ball & King Company, Claremont (Continued)	11376	Red Clover, 3835, Liberty	1938	S	99.40	S	82	87
	11348	Timothy, 4687, Liberty	1939	S	99.70	S	92	89
Rochester Grain Store, Rochester	11211	Alsike Clover, 7248, Liberty	1939	S	97.75	S	84.5	81
	11212	Red Clover, Medium	1937	S	99.40	78.5	95	74
H. E. Rollins, New Durham	11076	Red Top, Fancy, 6428	1939	S	92.40	S	93	81
	11077	Timothy, 6371	1939	S	99.65	S	92	93
H. C. Sanborn, Laconia	11396	Red Clover, Pine Tree	....	A	98.00	S	90	88
S. A. Schurman & Son, Portsmouth	11201	Alsike Clover, 25-167	1939	S	99.05	S	82	77
	11206	Barley, 071771, 2-row	1938	S	99.45	S	97	93
	11203	Buckwheat, Japanese, 8161	1938	S	99.68	S	90	89
	11205	Hungarian Millet, Fancy	1937	S	99.04	71.5	90	71
	11204	Japanese Millet, 9060.	1938	97.48	98.50	S	90	86
	11202	Red Top, 41574, Pine Tree	1938	S	96.00	S	91	82
	11200	Timothy, 66411, Pine Tree	1938	S	99.65	78.5	93	78
J. Herbert Seavey, Dover	11125	Alsike Clover, Liberty, 7285	1939	S	97.50	S	86	79
	11132	Alsike Clover, Pan American	1938	97.87	99.09	S	80	74

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SEED INSPECTION, 1939—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination		Actual
				Found	Guar-anteed	Found	Guar-anteed	Value**
J. Herbert Seavey, ... Dover (Continued)	11133	Barley, Wisconsin 38, 6-row, 3972	1938	S	99.43	S	92	96
	11126	Buckwheat, ... Japanese, 6848	1938	S	99.68	S	94	90
	11141	Canada Peas, 3337 ...	1937	S	99.00	84	94	83
	11142	Canada Peas, 4426 ...	1939	S	98.50	85	95	84
	11130	Kentucky Bluegrass,. 3713	1938	S	85.51	S	85	69
	11129	Oats, Swedish Select, 7282	1939	S	97.50	S	92	87
	11148	Red Clover, ... Liberty, 7288	1939	S	99.00	S	78	83
	11135	Red Top, Fancy, 4414	1939	S	92.34	S	90	81.5
	11136	Red Top, ... Pan American, 4282	1938	S	94.73	S	90	87
	11127	Rye, Rosen, 74-22 ...	1937	S	97.44	73.5	90	72
	11128	Timothy, ... Liberty, 6635	1938	S	99.66	S	94	97
	11137	Timothy, ... Pan American	1938	S	99.60	S	94	94
	11144	Timothy, Liberty, 6628	1939	S	99.60	S	94	90
	11145	White Clover, 3903...	1938	S	98.00	69.5	84	68

F. B. Spaulding Company, Lancaster	11476	Alsike Clover, 6377	1939	S	99.00	S	78	76
	11478	Barley, Fancy, 6-row	1939	S	96.60	S	92	92
	11480	Soy Beans, 84407, Manchu	1939	S	99.50	S	90	87.5
	11477	Timothy, 66565, Pine Tree	1939	S	99.65	S	90	84
C. P. Stevens Company, Franklin	11380	Buckwheat, Japanese.	1939	S	99.92	S	95	92
	11426	Hungarian Millet, 83-51	1938	A	98.94	19	70	19
	11430	Red Clover, Ace, 024609	1937	S	98.50	66	82	65
	11431	Red Clover, Ace, 23-516	1936	A	98.38	82	94	81
	11434	Red Clover, 6412, Imported Medium	1937	S	99.00	74	90	73
	11432	Special Mixture, Stevens	1939	A	98.32	S	91	85
	11433	Sweet Clover W. B., 25-126	1939	S	99.00	67.5	81	66.5
C. P. Stevens Company, Plymouth	11406	Buckwheat, Japanese, 81-21	1939	S	99.92	S	95	94
	11407	Japanese Millet, 81-1.	1938	S	97.41	S	80	72
	11409	Red Clover, European, 2848	1938	S	99.50	S	90	87.5
Sunshine Feed Store, Keene	11304	Alfalfa, Grimm, 28-156	1939	S	99.50	S	80	73
	11315	Hungarian Millet, 38-122	1938	S	98.90	70	85	69

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SEED INSPECTION, 1939—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination		Actual
				Found	Guaranteed	Found	Guaranteed	Value**
Sunshine Feed Store, Keene (Continued)	11309	Japanese Millet, 38-127	1939	S	98.00	S	90	85
	11310	Oats, 36-199, Anchor	1939	S	97.00	S	95	93
	11316	Red Clover, 15-236, Medium	1939	S	99.56	A	80	90
	11314	Timothy, 10-183, Arco	1939	S	99.70	S	90	92
	11307	Red Top, 30-67, Fancy	1939	S	92.75	81.5	93	76
Sunshine Feed Store, Manchester	11252	Alsike Clover, 25-74	1938	S	97.65	S	80	74
	11255	Oats, Swedish Select, Anchor, 36-106	1939	S	98.00	S	90	91
	11254	Red Clover, 15-105, Medium	1938	S	99.00	S	85	81
	11253	Red Top, 30-35	1938	S	91.75	65	87	59
	11266	Timothy, Arco, 10-178	1939	S	99.70	S	95	96
Sunshine Feed Store, West Lebanon	11470	Alsike Clover, Arco, 25-199	1939	S	99.07	S	80	82
	11459	Canada Peas, 40-43	1939	S	98.00	S	90	87
	11468	Oats, Swedish Select, Anchor, 36-107	1939	S	98.00	S	92	93
	11469	Red Clover, 15-274, Medium	1939	S	99.06	A	80	92

Sunshine Feed Store, ... West Lebanon (Continued)	11471	Red Clover, 24246, ... Spceial Medium	1939	95.27	99.00	S	90	80
	11467	Timothy, ... 66216, Pine Tree	1939	S	99.60	S	94	91
F. B. Swain, ... Winnisquam	11429	Hungarian Millet, ... 83-52	1938	S	98.50	S	80	73.5
Alex Szyman, ... Claremont	11349	Barley, 6-row, Fancy.	1939	S	96.00	S	92	89
	11362	Oats, X-tragood	1939	S	97.00	S	96	95
	11350	Red Clover, ... 7202, Liberty	1939	S	99.00	S	81	80
A. J. Turcotte, ... Newmarket	11300	Hungarian Millet, ... J 66035	1935	S	99.60	27.5	82	27
	11301	Japanese Millet, ... J 5 A 36	1937	S	98.07	69.5	80	68
	11299	Red Clover, Medium..	1939	S	99.40	S	94	90
	11298	Red Top, Gem	....	S	91.00	S	90	80
	11297	Timothy, ... 432339, Marvel	1939	S	99.60	S	91	93
Thompson & Hoague Company, ... Concord	11066	Alfalfa, Grimm, ... Pine Tree, 27193	1939	S	99.02	S	81	83.5
	11065	Alsike Clover, ... Ace, 21463	1939	S	97.05	S	83	84
	11069	Buckwheat, ... Japanese, 86142	1939	S	99.67	S	95	88.5
	11072	Hungarian Millet, 8355	1939	S	98.74	S	85	87

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SEED INSPECTION, 1939—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination		Actual Value**
				Found	Guar-anteed	Found	Guar-anteed	
Thompson & Hoague Company, ... Concord (Continued)	11070	Japanese Millet, ... 08155-3	1939	97.05	98.00	S	90	86
	11074	Kentucky Bluegrass, . 032808	1939	S	86.90	S	80	74
	11067	Rape, ... Dwarf Essex, 95554	1939	S	98.67	S	94	94
	11071	Red Clover, ... Medium Ace, 24144	1939	S	98.52	A	83	91.5
	11075	Red Clover, 24 X 169	1938	97.83	99.00	S	81	73
	11073	Red Top, Fancy, ... Ace, 41612	1939	S	92.00	S	90	82
	11068	Timothy, ... Pine Tree, 66482	1939	S	99.65	S	90	93.5
John B. Varick Company, ... Manchester	11121	Alfalfa, 27202, ... Grimm, Pine Tree.	1939	S	99.16	S	71	68
	11108	Alsike Clover, ... Ace, 21378	1939	S	96.05	S	80	78
	11107	Canada Peas, 85452 ..	1939	S	99.50	S	86	79
	11106	Japanese Millet, 81-1.	1938	S	97.41	69	80	67
	11109	Japanese Millet, ... 08155-3	1939	97.07	98.00	S	90	85
	11122	Oats, Swedish Type,.. 073101	1939	S	98.00	S	93	95.5

John B. Varick Company, Manchester (continued)	11111	Poa Trivialis, 034457..	1939	S	90.00	S	90	79
	11117	Red Clover, Ace, Medium, 24144	1939	S	98.52	A	83	90
	11114	Red Top, Pine Tree, 41611	1939	S	95.40	S	96	89
	11110	Rye, Spring, 74221 ...	1939	S	98.06	S	94	90
	11116	Rye, Rosen, Winter, 94223	1939	S	97.59	S	85	81
	11112	Soy Beans, Illini, 084388	1938	S	99.00	81.5	90	80.5
	11113	Soy Beans, 84402, Black Wilson	1939	S	99.00	S	90	85
	11119	Sweet Clover, Pine Tree, White Blossom, 25972	1939	S	99.72	S	87	84
	11115	Timothy, Pine Tree, 66318	1938	S	99.60	S	94	92.5
	11120	Timothy, Pine Tree, 66482	1939	S	99.65	S	90	91.5
	11118	White Clover, 26258..	1939	S	97.40	S	85	73.5
Wendell's, Portsmouth	11208	Red Top	1939	S	90.00	S	90	81
	11207	Timothy	1939	S	99.60	S	94	92
	11195	White Clover, Choice	1939	95.70	97.60	62.5	90	60

A—Above S—Satisfactory

* As stated on tag accompanying seed.
** Percentage of purity x percentage of germination.

SEED INSPECTION, 1939—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination		Actual Value**
				Found	Guar-anteed	Found	Guar-anteed	
Wilton Feed & Supply Co., Wilton	11325	Alsike Clover, 1541, Pan American	1939	S	99.00	S	80	77
	11324	Japanese Millet	1939	S	98.10	S	90	87
	11322	Oats	1939	S	99.50	S	91	95
W. A. Young, Exeter	11250	Alsike Clover	1934	S	97.95	33.5	96	33
	11244	Japanese Millet	1939	S	98.88	89	96	88
	11246	Kentucky Bluegrass	1939	S	80	A	70	71
	11251	Red Clover, Medium	1939	S	99.40	82	91	82
	11245	Red Top, 4210, Pan American	1936	S	94.00	68	88	64
	11247	Timothy, Pan American	1936	S	99.60	64.5	92	64
	11249	Timothy Gem	1934	97.71	99.04	8	83	8
	11248	White Clover	1939	85.34	98.00	77	92	67

A—Above S—Satisfactory

* As stated on tag accompanying seed.

** Percentage of purity x percentage of germination.

~~PAS~~
~~630.72~~
~~N532~~
~~no.306-326~~